

Title (en)

Plasma cutting torch with distinguished gas injection circuits

Title (de)

Plasma-Schneidbrenner mit verschiedenen Gas-Zufuhrkreisläufen

Title (fr)

Torche de coupage plasma à circuits d'injection de gaz différenciés

Publication

EP 1575342 A3 20060215 (FR)

Application

EP 05300121 A 20050216

Priority

FR 0450477 A 20040309

Abstract (en)

[origin: EP1575342A2] The torch has a main body including two feeding circuits (C, E) for supplying process gas and starting gas to a plasma-producing chamber (8), respectively, where the circuit (E) is remote from the circuit (C). The plasma-producing chamber includes two sets of openings (D, F) arranged on a diffuser part to permit the passage of the process gas and the starting gas through the plasma-producing chamber. Independent claims are also included for the following: (A) a plasma arc processing installation including a plasma torch (B) a process for cutting metal parts.

IPC 8 full level

H05H 1/34 (2006.01)

CPC (source: EP US)

H05H 1/34 (2013.01 - EP US); **H05H 1/3494** (2021.05 - EP); **H05H 1/3494** (2021.05 - US)

Citation (search report)

- [A] US 3614376 A 19711019 - MANABE TOSIKATU, et al
- [A] US 5290995 A 19940301 - HIGGINS PHILIP K [US], et al
- [A] US 5406047 A 19950411 - KATSCHINSKI ULRICH [DE], et al
- [A] US 3313908 A 19670411 - ROBERT UNGER, et al
- [A] US 3027446 A 19620327 - BROWNING JAMES A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1575342 A2 20050914; EP 1575342 A3 20060215; FR 2867405 A1 20050916; FR 2867405 B1 20060428; US 2005199594 A1 20050915

DOCDB simple family (application)

EP 05300121 A 20050216; FR 0450477 A 20040309; US 7395405 A 20050307